

PRICE RIVER DISTRIBUTION SYSTEM

In making an analysis of the Price River, its tributaries, and the Price River Drainage Basin in general, data were gathered on the flow characteristics of various portions of the river, the nature of the use of water, the supply and demand for water, the diversions and their physical relationships to the entire water supply.

Court Decrees, stipulations, stock and acreage transfers, information from individuals and canal companies, and assistance from several attorneys with clients in the Price River Basin; all coupled together to make the Price River distribution picture more precise and clear. The River Commissioner provided valuable assistance and advice on the administration and distribution of waters, both storage and natural flow.

Several stages in the development of the distribution schedule were difficult and involved many hours of tedious calculation and study. The procedure was roughly as follows:

1. Prepare a field map upon which all diversions from the live streams could be plotted, named, and set out in relationship to each other and to the entire drainage basin.
2. Redraft the map to show the perfected distribution system diagrams, including all foreign waters into the basin and export waters being conveyed out of the basin. This final map now shows the entire water supply potential upon which the single or corporate diversion is dependent, the relationship of one diversion to another, all storage waters within the basin, strategic locations of stream measuring devices, and other important information affecting water distribution and administration.
3. Pictures were taken of diversion points and measuring devices in ditches and canals, and critical areas along the conveyance systems were inspected. The photographs have been labeled and filed for further use.
4. The 1902 Morse Decree, the 1910 Supplemental Morse Decree, Stipulations and other documents affecting the division of water were analyzed and broken down into simple charts and tabulations. The duty of water on all calculations was taken to be 1.0 cfs for 60 acres as set forth in the 1910 Supplemental Morse Decree.
5. A precise list was made of all rights set forth in both decrees. Flows which were given in c.f.s. were listed as such, others for which an acreage figure was given were converted to c.f.s. by applying the 1/60 duty. All decreed rights were itemized within their own class of water, and all seven classes were computed together to give the maximum flow rights. The decreed ownership was listed in all cases, and where it was possible this ownership was traced to the present day, and accredited to the present owners. Since the information supplied by the canal companies and their attorneys showed assignments and transfers to be by acreage, the large chart on the Decreed Rights has traced ownership by acreage and then converted to a c.f.s. figure in the final answer.
6. A table was prepared to show the summary of these decreed rights and the summary of their present ownerships.
7. From the Decreed Right Summary Table, a percentage flow right figure was obtained for each of the 15 companies or municipalities which divert from the main channel of Price River. This percentage was broken down for each class of water, or priority of water as set forth in the Morse Decree.
8. Since all the rights in one class have an equal priority with one another, a pro rata distribution is possible where each user, individual or corporate, takes a percentage of the available flow of the river based on the percentage of this diverted right to the total decreed rights with equal or senior priorities.
9. A Price River Distribution Schedule has been prepared, setting forth all decreed rights from the main channel of Price River on a pro rata priority basis, from zero c.f.s. to the 87,445 c.f.s. maximum decreed natural flow rights.

It is important for all water users to protect their water rights and to be armed with the same basic important information concerning water administration and distribution, and to understand the entire relationship between the water supply and the demand for that water within the drainage basin. Sound water management programs enlarge the available water supply through effective use and administration practices.

Price River Distribution System
Percentage Breakdown on Rights

Present Owner or Lessee	Class and Priority of Water as set forth in the Morse Decree						
	1	2	3	4	5	6	7
1. Price Canal	42.636	85.931	0	0	0	0	0
2. Stowell Ditch	3.237	0.783	21.824	0	0	100.000	30.488
3. Gay Ditch	2.158	0	0	0	0	0	0
4. Spring Glen Canal	9.335	0	0	0	0	0	0
5. Bryner-Hansen Ditch	1.607	0.783	0	32.773	31.880	0	0
6. Bryner-Ploutz Ditch	2.170	2.457	0	0	68.120	0	0
7. O'Berto Ditch	0	0	0	0	0	0	0
8. Independent Coal & Coke	1.399	1.339	0	0	0	0	69.512
9. Utah Power & Light Co. Total (Owned & Leased)	5.043	6.696	78.176	67.227	0	0	0
10. Carbon Canal	10.602	0	0	0	0	0	0
11. U. S. Steel Coal Washing Plant	7.976	0	0	0	0	0	0
12. Carbon County Country Club	0.235	0	0	0	0	0	0
13. Soldier Summit Town	0.094	2.009	0	0	0	0	0
14. Helper City	3.050	0	0	0	0	0	0
15. Price City	10.459	0	0	0	0	0	0
Class Totals							
Percent Totals	100.001	99.998	100.000	100.000	100.000	100.000	100.000
C.F.S. Totals	71.052	14.934	0.307	0.357	0.367	0.100	0.328
Accumulated C.F.S. Total	71.052	85.986	86.293	86.650	87.017	87.117	87.445

Price River Distribution System
Decreed C.F.S. Transfer Summary

Present Owner or Lessee	Class and Priority of Water as set forth in the Morse Decree							Computed Total
	1	2	3	4	5	6	7	CFS
1. Price Canal	30.294	12.833	0	0	0	0	0	43.128
2. Stowell Ditch	2.300	0.117	0.067	0	0	0.100	0.100	2.683
3. Gay Ditch	1.533	0	0	0	0	0	0	1.533
4. Spring Glen Canal	6.633	0	0	0	0	0	0	6.633
5. Bryner-Hansen Ditch	1.142	0.117	0	0.117	0.117	0	0	1.493
6. Bryner-Ploutz Ditch	1.542	0.367	0	0	0.250	0	0	2.158
7. O'Berto Ditch	0	0	0	0	0	0	0	0
8. Independent Coal & Coke	0.994	0.200	0	0	0	0	0.228	1.422
9. Utah Power & Light Co. Total (Owned & Leased)	3.583	1.000	0.240	0.240	0	0	0	5.063
10. Carbon Canal	7.533	0	0	0	0	0	0	7.533
11. U.S. Steel Coal Washing Plant	5.667	0	0	0	0	0	0	5.667
12. Carbon County Country Club	0.167	0	0	0	0	0	0	0.167
13. Soldier Summit Town	0.067	0.300	0	0	0	0	0	0.367
14. Helper City	2.167	0	0	0	0	0	0	2.16
15. Price City	7.431	0	0	0	0	0	0	7.431
Class Totals	71.052	14.934	0.307	0.357	0.367	0.100	0.328	87.445
	1	2	3	4	5	6	7	